

Braskem PP H 105

Polypropylene Homopolymer

Braskem

Message:

Description:
H 105 is a high melt flow rate homopolymer with high transparency. Designed for use on thin-walled injection moulding parts with high output. This product exhibits excellent processability and very high stiffness.

Applications:
High transparency packaging for food and cosmetics; Thin-walled household appliances; Thin-walled parts and easy mould filling.

General Information			
UL YellowCard	E120161-220429		
Features	Fast Molding Cycle		
	Good Processability		
	High Stiffness		
	Homopolymer		
Uses	Closures		
	Cosmetic Packaging		
	Food Packaging		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	106		ASTM D785
R-Scale	103		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, Injection Molded	40.0	MPa	ASTM D638
Yield, Injection Molded	36.0	MPa	ISO 527-2
Tensile Elongation			
Yield, Injection Molded	8.0	%	ASTM D638
Yield, Injection Molded	11	%	ISO 527-2
Flexural Modulus - 1% Secant			

Injection Molded	1500	MPa	ASTM D790
Injection Molded	1650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	20	J/m	ASTM D256
23°C, Injection Molded	2.1	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	107	°C	ASTM D648
0.45 MPa, Unannealed	113	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	59.0	°C	ASTM D648
1.8 MPa, Unannealed	59.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ASTM D1525 ¹
--	153	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Haze			
1000 µm, Injection Molded	28	%	ISO 13468-1
1000 µm, Injection Molded	34	%	ASTM D1003
NOTE			
1.	Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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